

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Peter Mardilovich et al.

Confirmation No.:

Application No.:

Examiner:

Filing Date:

Group Art Unit:

Title: ELECTROLESS DEPOSITION METHODS AND SYSTEMS

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either a:
☐ Statement under 37 CFR 1.97(e), or
☐ a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:
☐ Statement under 37 CFR 1.97(e)(1) or (2), and
☐ a \$180.00 fee set forth in 37 CFR 1.17(p).
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

☒ Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Citation together with copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

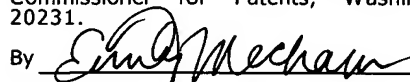
It is requested that the information disclosed herein be made of record in this application.

"Express Mail" label no. **EV 329 937 848 US**

Date of Deposit July 11, 2003

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Washington, D.C. 20231.

By

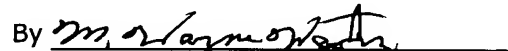


Typed Name: **Emily Mecham**

Respectfully submitted,

Peter Mardilovich et al.

By



M. Wayne Western

Attorney/Agent for Applicant(s)

Reg. No. **22,788**

Date: July 11, 2003

FORM PTO-1449 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 200300109-1	APPLICATION NO.	CONFIRMATION NO.
	APPLICANT Peter Mardilovich et al.		
	FILING DATE	GROUP	

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A	4,486,274	12/04/1984	Abys et al.	
	1B	4,668,533	05/26/1987	Miller	
	1C	5,882,736	03/16/1999	Stein et al.	
	1D	5,980,998	11/09/1999	Sharma et al.	
	1E	6,194,032	02/27/2001	Svedberg et al.	
	1F	6,221,140	04/24/2001	Kobayashi et al.	
	1G	6,402,403	06/11/2002	Speakman	
	1H	6,563,057	05/13/2003	Hotta et al.	
	1I	2001/0012869	08/09/2001	Fukushima et al.	
	1J				
	1K				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

1Q	Mardilovich, Peter P., Ying She and Yi Hua Ma, "Defect-Free Palladium Membranes on Porous Stainless-Steel Support," AICHE JOURNAL, Vol. 44, No. 2, pp. 310-322, Feb. 1998.
1R	Kim, Changman, Yasushi Oikawa, Jaesoo Shin and Hajime Ozaki, "Ni Dot Array Formation on Scratches of Si(111) by Electroless Deposition," JPN. J. APPL. PHYS. Vol. 41, Part 2, No. 2B, pp. L178-L179, Feb. 2002.
1S	Petrov, N., Y. Sverdlov, and Y. Shacham-Diamand, "Electrochemical Study of the Electroless Deposition of Co(P) and Co(W, P) Alloys," JOURNAL OF THE ELECTROCHEMICAL SOCIETY, 149 (4) C187-C194 (2002)

EXAMINER

DATE CONSIDERED